

CLAIMS:

1. A method of recording marks representing data in an information layer of a record carrier by irradiating the information layer by means of a pulsed radiation beam, wherein a mark is written by a sequence of write pulses, the number of write pulses in a sequence for writing a mark of length NT , T being the length of a reference clock, being
5 determined by application of a predetermined write strategy, characterized in that for writing a mark of length NT either a first write strategy using $N+k$ write pulses, a second write strategy using $\text{trunk}(N/2+k)$ write pulses, or a third write strategy using $\text{trunk}(N/3+k)$ write pulses, k being an integer equal to or larger than one, is applied.
- 10 2. A method as claimed in claim 1, characterized in that for low speed phase-change recording the first write strategy is applied, for higher speed phase-change recording the second write strategy is applied and for highest speed recording the third write strategy is applied.
- 15 3. A method as claimed in claim 1 or 2, characterized in that k is selected to be small in case of high speed recording.
4. A method as claimed in claim 1, characterized in that k is selected such that for all write strategies the number of write pulses
20 is equal to or larger than N .
5. A method as claimed in claim 1, characterized in that k is selected to be an integer larger than 1.
- 25 6. A method as claimed in claim 1, characterized in that for writing marks having a length in the range from $N_{\min}T$ to $N_{\max}T$ a $(N/m+k)$ write strategy can be used, with m being a positive integer larger than 2 and k being larger than $(N_{\max} m - N_{\min} - m)/m$.

7. A recording device for recording marks representing data in an information layer of a record carrier by irradiating the information layer by means of a radiation beam, wherein a mark is written by a sequence of write pulse, the number of write pulses of the sequence for writing a mark of length NT , T being the length of a reference clock, being
- 5 determined by application of a predetermined write strategy, the device comprising a radiation source for providing the radiation beam and a control unit operative for controlling the power of the radiation beam and for providing the sequence of write pulse for recording the marks,
- characterized in that the control unit is operative for controlling the power of the radiation
- 10 beam such that for writing a mark of length NT either a first write strategy using $N+k$ write pulses, a second write strategy using $\text{trunk}(N/2+k)$ write pulses, or a third write strategy using $\text{trunk}(N/3+k)$ write pulses, k being an integer equal to or larger than one, is applied.